

LIST OF NEW MEMBERS AND ASSOCIATE MEMBERS

Brian Zimmerman	Chengqing Wang	Todd Taylor	Doo-in Kim	Eric Shirley
R. David Holbrook	Huan Zhang	Jason Gardner	Shuhi Kang	Jianyoung Tang
Pradeep N. Namboodiri	Gerald Fraser	John Curry	Claudette M. Rosado	Yonglin Liu
Jeraine M. Johnson	Judith Terrill	Kar Tean Tan	Lisa Fitzgerald	Maria Uhle
Ziwen Fu				

NIST SIGMA XI CHAPTER PRESIDENTS

Hans J. Oser	1976-77	Edgar S. Etz	1992-93
John W. Rowen	1977-78	Barbara C. Levin	1993-94
H. Steffen Peiser	1978-79	Harry L. Rook	1994-95
Karl G. Kessler	1979-80	W. Robert Kelly	1995-96
Theodore V. Vorburger	1980-81	Robert D. Shull	1996-97
Barbara F. Howell	1981-82	Dale E. Newbury	1997-98
Edward L. Brady	1982-83	Daniel W. Lozier	1998-99
James F. Schooley	1983-84	William R. Ott	1999-00
Anna C. Fraker	1984-85	Robert A. Fletcher	2000-01
Chris E. Kuyatt	1985-86	Bert M. Coursey	2001-02
Lawrence H. Bennett	1986-87	Gerald V. Blessing	2002-03
Howard E. Sorrows	1987-88	Charles D. Ehrlich	2003-04
Marilyn E. Jacox	1988-89	Alan H. Cookson	2004-05
Johanna M. H. Levelt Sengers	1989-90	Magdalena Navarro	2005-06
Kenneth G. Kreider	1990-91	Michael Gaitan	2006-07
Ronald G. Rehm	1991-92	John Slotwinski	2007-08

CONGRATULATIONS TO:

The NIST Chapter of Sigma Xi has won two national awards for 2007, the Chapter of Excellence Award, and the Chapter Program Award. These recognize our “exceptional innovation and quality in the annual programming” and “singularly exceptional chapter programs.” respectively.

MANY THANKS TO:

Dale Newbury, Charles Ehrlich, and Yuqin Zong for serving as **Montgomery Area Science Fair Sigma Xi Judges** and Joseph Conny, Gerry Blessing, Douglas Meier, and Robert Myklebust for serving as **Frederick County Science and Engineering Fair judges.**

The Willow Tree Inn, Thursday, May 22 2008

Annual Banquet Program

- 5:30 pm Social Hour (Cash Bar)
- 6:30 pm Dinner
- 7:15 pm Program
- Remarks & Introduction of Current Officers John Slotwinski
- Remarks by the Incoming President Bryant Nelson
- Introduction of New Officers Bryant Nelson
- Introduction of New Members John Slotwinski
- Presentation of Awards John Slotwinski & Bryant Nelson

Outstanding Teacher Award

Dale Newbury

Ralph von Philp

(Boonsboro High School)

Measurement Science Awards for High School Science Fairs

Dale Newbury

Montgomery County

Paul Kominers

(Walt Whitman High School)

Melodi Anahtar

(Takoma Park Middle School)

Frederick County

Marvin Gee

(Tuscarora High School)

Outstanding Post-Doctoral Presentation Awards

Barbara C. Levin

Andrew Berglund, James L. Hanssen, Denis E. Bergeron,
Gregory A. Cooksey, Brian D. Cloteaux, Kevin G. Yager, Yun Liu,
and Jun Young Chung

Young Scientist Award for Excellence in Scientific Research

Marilyn E. Jacox

Dean M. DeLongchamp

Outstanding Service in Support of NIST Research Scientists

Marilyn E. Jacox

Mylene Ouimette

Outstanding Service to the NIST Sigma Xi Chapter

Magdalena Navarro

Rebecca M. Ogg, Bessmarie A. Young and Christie C. Keyser

Introduction of Speaker

Bryant Nelson

Kenneth Olden

(NIEHS)

Sigma Xi, The Scientific Research Society

National Institute of Standards and Technology Chapter



32nd Annual Banquet

Featured Speaker:

Dr. Kenneth Olden

**National Institute of Environmental Health Sciences
NIH, Research Triangle Park, NC**

Environmental Justice and Health

**Disparities: “Of all the forms of inequality,
injustice in health care is the most shocking
and the most inhumane.”**

Profound racial and socioeconomic disparities in health have been well-documented by a large body of literature. This includes differences in life expectancy, diabetes, asthma, many cancers, heart disease, hypertension, and birth defects. Health disparities will be discussed from the point of view of finding a solution. To make progress toward the achievement of this objective, one must look upstream to social and environmental factors that are amenable to interventions to ameliorate the risk. Providing access to health care and adopting equitable environmental protection practices are the interventions that will have the most significant impact on reducing health disparities. A just society should take steps to make certain that all segments of society have access to health care and a healthy and safe environment in which to live and work.

Kenneth Olden, Ph.D., Sc.D., L.H.D., is the most recent past Director of the National Institute of Environmental Health Sciences (NIEHS) - National Institutes of Health (NIH) and the National Toxicology Program (NTP) in the U.S. Department of Health and Human Services. He held these positions from 1991 to 2005. He was the first African-American to become Director of one of the 18 institutes in the history of the agency. He has returned full time to his research position as Chief of the Metastasis Section, Laboratory of Molecular Carcinogenesis at the NIEHS, which he also held while director. Dr. Olden recently held the position of Yerby Visiting Professor, Harvard School of Public Health, for the academic year 2006-2007. Since resigning as Director of NIEHS/NTP in 2005, Dr. Olden has been very active as an advisor to non-profit foundations. These include the following:

Michael J. Fox Foundation for Parkinson's Research
Avon Breast Cancer Foundation
California Stem Cell Initiative

The Willow Tree Inn, Montgomery Village.

Thursday, May 22, 2008

LIST OF 2007-2008 PRESENTATIONS AND SPEAKERS

All talks were in Lecture Room A of Bldg. 101, unless stated otherwise

*Indicates a co-sponsored event

Arsenic in Drinking Water: Aquatic Chemistry and Mitigation through Sustainable Filtration Technology

Abul Hussam, George Mason University

September 13, 2007

Creating a Volunteer Opportunity for Retired Scientists

Harold Sharlin, ReSET

October 18, 2007

Metrology for Molecular Electronics

James G. Kushmerick, NIST

November 29, 2007

From the Big Bang to the Discovery of Alien Life*

John Mather, NASA

December 6, 2007, at UMD

Atmospheric Chemistry at Sea - Field Investigations of Climate, Environmental, and Health, and Impact of Downwind Transport from Saharan and Sub-Saharan Africa

Vernon R. Morris, Howard University

December 13, 2007

PEGylated Colloidal Gold Nanomedicines

Lawrence Tamarkin, CytImmune Science Inc.

January 17, 2008

What Functional MRI can, can't, and might do*

Dr. Peter Bandettinni, NIH

January, 29, 2008 at Positano's in Bethesda

Sigma Xi Post-doctoral Poster Presentation

Barbara C. Levin (Chair)

February 14, 2008

Diamond Windows on Extreme Conditions

Russell J Hemley, Carnegie Institution

February 21, 2008

Genes, Genomes and Metagenomes, A Window into Genomics

Karen E. Nelson, The J. Craig Venter Institute

March 13, 2008

Using Biology Against Bioterrorism

Joany Jackman, The Johns Hopkins University APL

April 17, 2008

OFFICERS AND COMMITTEES

	2007-2008	2008-2009
Executive Committee President President-Elect Secretary Treasurer Past President Web Master Headquarters Liaison	John Slotwinski John Slotwinski Bryant Nelson Jason Gardner Darwin Reyes Michael Gaitan Yuin Zong Magdalena Navarro (International Committee)	Bryant Nelson David Holbrook Jason Gardner Darwin Reyes John Slotwinski Yuin Zong Magdalena Navarro (International Committee)
Nominations Committee	Abigail Lindstrom (2008, Chair) Nicholas Ritchie Magdalena Navarro Ambler Thompson	Abigail Lindstrom (2009, Chair) Chengqing Wang Mary Satterfield
Admissions Committee	Magdalena Navarro (2008, Chair) Michael Gaitan Barbara C. Levin	Magdalena Navarro (2009, Chair) Judith Terrill Barbara C. Levin
Education Committee (Open to all Members and Associate Members)	Dale Newbury (2007, Chair) Joseph M. Conny W. Robert Kelly Abigail Lindstrom John R. Maurey	Mary Satterfield (2009, Chair) Jason Gardner Dale E. Newbury Abigail Lindstrom
Program Committee	Bryant Nelson (2008, Chair) Gerald V. Blessing Charles D. Ehrlich Marcia Holden Daniel W. Lozier	David Holbrook (2009, Chair) Gerald V. Blessing John Slotwinski William R. Ott
Awards Committee	Marilyn E. Jacox (2008, Chair)	Marilyn E. Jacox (2009, Chair) (Members to be appointed)
Postdoctoral Poster Presentation Committee (Open to all Members and Associate Members)	Barbara C. Levin (2008, Chair) Edgar Etz Robert Fletcher W. Robert Kelly Stefan Leigh	Barbara C. Levin (2009, Chair) Edgar Etz Robert Fletcher Bryant Nelson Yuin Zong